

Date: Tue, 16 Mar 93 02:29:25 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #324  
To: Info-Hams

Info-Hams Digest                      Tue, 16 Mar 93                      Volume 93 : Issue    324

Today's Topics:

144 MHz 4CX1000A Amplifier Design Needed  
A few QRP related questions.  
Daily Solar Geophysical Data Broadcast for 15 March  
Dayton Hamvention Information  
DIR/REG  
Foothill hamfest disappointing  
FT-470 Mod's  
Ham Power Limit proposed  
Heath SB-610  
Help wanted building Fixed-Frequency CHU receiver.  
License delays  
Repair my HW-101??  
Used radios  
What about those FAQing number stations anyway?  
What is RST? (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 16 Mar 93 09:35:33 GMT  
From: pipex!doc.ic.ac.uk!uknet!uos-ee!ee.surrey.ac.uk!M.Willis@uunet.uu.net  
Subject: 144 MHz 4CX1000A Amplifier Design Needed  
To: info-hams@ucsd.edu

I have acquired a 4CX1000A plus base and chimney and want to make it go on 144  
MHz.

I need a good reliable design that is not too hard to build, for the RF bits. I can

manage the PSU. I have only seen the ARRL design so far. Alternatives would be welcomed.

Mike

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Date: 16 Mar 93 01:58:44 GMT  
From: sdd.hp.com!spool.mu.edu!olivea!sgigate!odin!chuck.dallas.sgi.com!  
adams@network.UCSD.EDU  
Subject: A few QRP related questions.  
To: info-hams@ucsd.edu

i won't repeat Michael's post, VE3WMB.

but he did bring up an interesting question. is the ARRL allowing  
Field Day on the WARC bands? i thought we had an agreement to stay  
off them critters for ALL major contests. am i ignorant and/or  
misinformed?

don't flame me, i'll be working QRP field day, but not on the WARC  
bands.

73 de k5fo chuck dit dit

-----  
Date: 16 Mar 93 06:15:54 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Daily Solar Geophysical Data Broadcast for 15 March  
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 074, 03/15/93  
10.7 FLUX=131.1 90-AVG=135 SSN=082 BKI=4466 5334 BAI=039  
BGND-XRAY=B4.6 FLU1=1.5E+07 FLU10=4.1E+04 PKI=4476 6435 PAI=054  
BOU-DEV=046,042,163,139,086,034,029,067 DEV-AVG=075 NT SWF=01:158  
XRAY-MAX= M2.9 @ 2135UT XRAY-MIN= B5.5 @ 0814UT XRAY-AVG= C3.2  
NEUTN-MAX= +003% @ 1240UT NEUTN-MIN= -001% @ 2335UT NEUTN-AVG= +0.7%  
PCA-MAX= +0.2DB @ 0050UT PCA-MIN= -0.4DB @ 0315UT PCA-AVG= -0.0DB  
BOUTF-MAX=55412NT @ 2359UT BOUTF-MIN=55328NT @ 1310UT BOUTF-AVG=55379NT  
GOES7-MAX=E:+137NT@ 1230UT GOES7-MIN=N:-053NT@ 1214UT G7-AVG=+077,+054,+009  
GOES6-MAX=P:+144NT@ 1542UT GOES6-MIN=N:-144NT@ 0805UT G6-AVG=+090,-005,-064  
FLUXFCST=STD:130,125,130;SESC:130,125,130 BAI/PAI-FCST=015,010,005/015,010,010  
KFCST=1333 3333 3112 2111 27DAY-AP=007,036 27DAY-KP=1233 3111 1335 66\*2  
WARNINGS=\*MAJFLR;\*SWF;\*PROTON;\*PCA;\*GSTRM;\*AURMIDWRN  
ALERTS=\*\*MINFLR:M2.9/2F@S03W88(7440),1945-2135-2226UTC;  
\*\*TENFLR:380SFU@2116UTC,DUR=30MIN;\*\*245STRM:2005-2228UTC;  
\*\*MAGSI:20NT@0526UTC;\*\*MINSTRM

!!END-DATA!!

NOTE: The Effective Sunspot Number for 14 MAR 93 was 70.0. These corrected sunspot numbers should be used as input into propagation prediction models such as IONCAP and PROPHET, etc.

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Date: 16 Mar 1993 02:25:27 GMT  
From: meaddata!dem@uunet.uu.net  
Subject: Dayton Hamvention Information  
To: info-hams@ucsd.edu

I got a flyer in the mail today with more information about the Dayton Hamvention, so I thought I'd post some info. I'm not affiliated with the Hamvention or DARA. For more information, call (513) 454-1456. Talk-in is on 146.94-, 146.91- alternate. Also, 223.94- and 442.1+, and 530 kHz AM.

Friday, April 25

0800-1800 Flea Market open  
0800-1800 Busses run  
1200-1800 Exhibits open  
1300-1700 Forums and scheduled activities

Forums:

AMSAT  
International Hungarian Amateur Radio Club  
Packet Radio  
Prodigy  
Antennas  
Electrical Safety Demonstration  
County Hunters  
Ham Radio in the Classroom

Unofficial Functions:

Tours of VOA Bethany Relay Station  
B\*A\*S\*H (Miami Valley FM Association)  
QCWA Dinner  
DX Dinner  
North Jersey DX Association  
National Packet Round Table  
Far Out A.R.C. Hospitality Blitz  
Western New York DX Association

Saturday, April 24

0600-1700 Flea Market open  
0600-1700 Busses run  
0800-1700 Exhibits open  
0900-1700 Forums and scheduled activities  
1930 Banquet (Speaker: Cliff Stoll, K7TA)

Forums:

DX  
ARES  
WX Satellite  
Combined MARS  
UHF/VHF  
Electrical Safety Demonstration  
OSSBN  
Youth in Amateur Radio  
Ohio Army MARS  
Digital Digest  
Slow Scan TV  
Firebirds  
Wayne Green  
Contests  
Amplitude Modulation  
Media Forum  
YLRL  
Fast Scan TV  
AMSAT  
Repeater Database Coordination  
QRP "Homebrewing and History"  
10-10  
MID CARS  
Transmatches  
Geratol Net

Unofficial Functions:

Amateur Radio Flying Boat Society Get Together  
10-10 Paper Chasers  
SPEC-COM Journal / USATVS Specialize Communications Workshop  
Weather Satellites / Remote Imaging  
Western New York DX Association  
North Jersey DX Association

Sunday, April 25

0600-1600 Flea Market open  
0600-1700 Busses run  
0800-1400 Exhibits open  
0930-1400 Forums and scheduled activities  
1400 Prize Drawings

Forums:

ANARC Scanner / Shortwave Listeners  
Bicycle Mobile Hams of America  
The Westlink / Newslite Story  
Electrical Safety Demonstration  
ARRL  
NEC - Using the Big Antenna Analysis Program  
Amateur Radio and The Law  
Station Grounding for Lightning Protection

--

David Myers	"You guys listen to managers	(513) 865-1343
Mead Data Central	much too often."	Fabrication Systems
P.O. Box 933	My manager	dem@meaddata.com
Dayton, Ohio 45401	2/5/93	...!uunet!meaddata!dem

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Date: 16 Mar 93 04:35:21 GMT  
From: usc!howland.reston.ans.net!spool.mu.edu!news.nd.edu!bsu-cs!bsu-ucs.uucp!  
yang.earlham.edu!jeremiah@network.UCSD.EDU  
Subject: DIR/REG  
To: info-hams@ucsd.edu

I have a pair of older Motorola MT-500 "Handie-Talkie" (slick name) portables. They have this old-style motorola screw-in antenna connection. The problem is, the threads start much deeper down the recess than the new ones, so stubby UHF antennas made for newer units don't fit in them.

All the other connections are bizarrely nonstandard too. The earpiece and external antenna jacks are 2.5 mm phono (identical so it's \*really\* easy to plug 'em in wrong). The external mike/speaker unit has a questionably sound mechanical connection dealy going where you hook a lip over a notch, and screw down another part.

So I'm looking for adapter or compatible part availability. I've never dealt with these crystal tuned Motorola thingys before, so I don't know Motorola's number or anything.

--

Jeremiah Wilton | jeremiah@yang.earlham.edu | JEREMIAH@EARLHAM.BITnet |

| NeXTmail only: jeremiah@math.earlham.edu |

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Date: 16 Mar 93 02:13:16 GMT  
From: usc!howland.reston.ans.net!spool.mu.edu!olivea!gossip.pyramid.com!pyramid!  
infmtx!seashore!randall@network.UCSD.EDU  
Subject: Foothill hamfest disappointing  
To: info-hams@ucsd.edu

I want to say first that I enjoy hamfests very much, and that I really appreciate the one they hold at Foothill College here in the Bay Area every month in the Spring and Summer. I'm sure that a lot of work goes into it, and I and many other hams appreciate it. There are, however, serious problems with the event that seem to get worse every year, and I wonder if they are problems common to other hamfests.

The first problem, and this may be a problem with hamfests in general, is that there are fewer and fewer "Joe Hams" who are selling one or two items. Most of the sellers are what I would call "Pros": they are either professional retailers or professional hamfesters. These are the guys with tables and tables of parts, test equipment, books, etc. Some guys seem to enjoy collecting parts for a living for sale at hamfests. I don't mind that too much, except when there isn't enough room for "Joe". I remember buying my first HF rig a few years ago- a Drake TR4- from a "Joe" who was just selling a couple of items. There don't seem to be too many of them anymore. Most of the used HF rigs I saw were being sold in groups of 20 or more by Pros who had them waaaaay overpriced.

This event has simply grown too large for the available space. I was one of dozens of sellers who were turned away due to lack of selling space, even though I arrived well before the supposed 7:00am starting time. I found myself in the middle of a massive traffic jam of sellers that blocked entrances and access roads into the college. The only nearby parking lot for buyers was filled to the brim before 7:00, and no one was directing traffic, telling buyers and sellers where to go, or even giving information over the radio. I started giving people directions on where to park on a 2m repeater, so at least I was trying to help. The event is in need of more room. If a larger facility is not available, perhaps it could be held more often, say every two weeks instead of monthly. There is also a serious need for better coordination of traffic and parking information.

Another thing ... is this a HAM flea market? You wouldn't know it by the items being sold. It seems like there are more and more old computers, old stereos, old test equipment, and even garage sale things like LPs and lamp shades. If I want to pick up my favorite Village People 8-track from the 70's, I can go to Ronnie's Rare Records. And who is going to buy old coax that looks like someone shredded it then put it out in the sun for 40 years? Or how about homebrew ladder line that someone's cat relieved itself on? Oh, and if you want to pick up 50 old IBM-XT keyboards, you can find them there too.

I would have KILLED just to see one nice, drifty old Heathkit with solder all over it. Granted, there were a few, but they were far-between.

There is one interesting thing I saw. A kid around 12 years old was selling straight keys that he made himself with wood and various metal parts. They looked well-made too. That to me is the spirit of what ham radio is all about. I almost bought one, too, but I had \$2 left, and I wanted to enjoy "YMCA" while driving home, so ....

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=====
Randall Rhea                                Informix Software, Inc.
Project Manager, MIS Sales/Marketing Systems  uunet!pyramid!infmtx!randall
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Date: 16 Mar 1993 04:17:11 GMT  
From: usc!howland.reston.ans.net!agate!uclink.berkeley.edu!  
acollins@network.UCSD.EDU  
Subject: FT-470 Mod's  
To: info-hams@ucsd.edu

In article <9303151738.AA04858@ucsd.edu> ESTUQJ0@MVS.OAC.UCLA.EDU (Nick Akers) writes:

>I have ftp access, but do not know where to look for FT-470 mod's. Any  
>suggestions on where to look, or on specific mod's appreciated.  
>

Try ftp.geo.brown.edu. Directory is /pub/hamradio/rigmods/yaseu, if memory serves (yes, yaseu, not yaesu like it says on the actual rig, nobody's

perfect :). Files are ft470\*.mod

I have done the UHF expanded receive and have used the hyperscan. Both are easy and painless, although I've never heard a peep above 470 or below 420 on the UHF receive (of course I look at my friend with his IC-W2A and his intermod problems and I don't complain too loudly :).

Andy Collins, KC6YEY  
acollins@uclink.berkeley.edu

PS: The thing is a SparcStation \*10\*. Real fast. Nice net connection too. Wish they had some more junk to play with though...

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Date: Sun, 14 Mar 1993 21:11:35 GMT  
From: haven.umd.edu!darwin.sura.net!knuth.mtsu.edu!raider!theporch!jackatak!  
jackhill@uunet.uu.net  
Subject: Ham Power Limit proposed  
To: info-hams@ucsd.edu

britton@psi.llumc.edu (Barrie Britton) writes:  
> The February, 1993 issue of RF Design magazine published a letter-to-the-  
> editor which should be of concern to U.S. hams. The letter follows:  
[...lots of the letter deleted...]  
> presently is, my jaw dropped when I read that the FCC had measured a  
> 9 V/meter field induced in a hapless neighbor's home by a ham running  
> a 1 kW HF transmitter. This is a HUGE, absurd amount of RF for a piece  
> of consumer equipment to reject!

Yes, it is...and, if the neighbor had not bitched so loudly about how ugly a tower is (I personally think aluminum forests are beautiful ;^) the ham could a) run less "soup"; b) stuff far less RF through the neighbor's window; and c) we'd all be able to enjoy our collective hobbies -- the ham \*and\* the guy with the VCR...

Just an innocent can of gasoline looking for the guy with the matches...

73

+-----+  
| Jack GF Hill                      Voice: (615) 459-2636    jackhill@jackatak.raider.net |  
| P. O. Box 1685                    Modem: (615) 377-5980            Compu\$erve 76427,31 |  
| Brentwood, TN 37024    Bicycling and SCUBA Diving            Ham Call: W4PPT |



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Date: Tue, 16 Mar 1993 03:28:44 GMT  
From: usc!zaphod.mps.ohio-state.edu!howland.reston.ans.net!gatech!concert!  
unccsun.uncc.edu!wlhamaty@network.UCSD.EDU  
Subject: Heath SB-610  
To: info-hams@ucsd.edu

I need schematics for a Heathkit SB-610 monitor scope. I got one cheap that almost works. I think I see the problem, but I can't be real sure without the specs. The manual would be nice too, but I can do without it. Can anyone out there please help?

Thanks & 73 de KQ40Q  
(KD4HSE in the book)

--

[-----]  
| Luke Hamaty KQ40Q "More than gold, I love to complain." |  
| Impact Technologies Group - Trurl, from The Cyberiad |  
| |  
| 800-438-6017 or 704-549-1100 |

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Date: Tue, 16 Mar 1993 04:58:58 GMT  
From: usc!wupost!udel!darwin.sura.net!ukma!lunatix!robert@network.UCSD.EDU  
Subject: Help wanted building Fixed-Frequency CHU reciever.  
To: info-hams@ucsd.edu

Can anybody out there point me to a source for a schematic?  
For those who may not be familiar, CHU is the Canadian time standard. Its transmittted on 3330 kHz, 7335 kHz, and 14670 kHz. it transmitted in A3H mode (a form of single sideband, I am told)  
I am not a ham, but can handle an iron OK, so a pointer to a suitable Reciever IC would be a big help as well. I hope to extract time info from the FSK data transmissions.

Thanks,  
Robert Sexton.

--

Robert Sexton, robert@lunatix.UUCP, lunatix!robert@ms.uky.edu  
Lexington Public Access UNIX -KY- (606) 255-9121

-----  
Date: Sun, 14 Mar 1993 20:50:37 GMT  
From: usc!howland.reston.ans.net!bogus.sura.net!darwin.sura.net!knuth.mtsu.edu!  
raider!theporch!jackatak!jackhill@network.UCSD.EDU  
Subject: License delays  
To: info-hams@ucsd.edu

ron@topaz.bds.com (Ron Natalie) writes:  
> > Regardless how you cut it, the VEC cycle adds...a week onto the process.  
> A good team and the ARRL VE seems to be better than that.  
[...his processing techniques deleted...]

Another benchmark for people waiting for the magic mail from  
Gettysburg:

A friend and co-worker took his VHF Technician at the Gallatin (TN)  
Hamfest 23 January 1993 and checked his mailbox (he lives in the  
geographic CENTER of the state: Lascassas, TN) Saturday 3/13 and found  
KD4YUL.

Both the baby and Proud Papa are doing just fine...;^)

That's only 7 or 8 weeks gestation! Things are looking better! ;^)  
73

+-----+  
| Jack GF Hill                      Voice: (615) 459-2636    jackhill@jackatak.raider.net |  
| P. O. Box 1685                    Modem: (615) 377-5980                    Compu\$erve 76427,31 |  
| Brentwood, TN 37024    Bicycling and SCUBA Diving                    Ham Call: W4PPT |  
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Date: 16 Mar 93 02:15:50 GMT  
From: usc!howland.reston.ans.net!spool.mu.edu!olivea!sgigate!odin!  
chuck.dallas.sgi.com!adams@network.UCSD.EDU  
Subject: Repair my HW-101??  
To: info-hams@ucsd.edu

In article <1993Mar15.161732.19654@linus.mitre.org>, m14494@mwvm.mitre.org (Mike  
White) writes:

|> Mark Bagdy writes:  
|> > I would like to know your opinion of fixing up my old HW-101.

|>  
|> Speaking as a former HW-101 owner, here's the Official  
|> repair technique for all "Hot Water" gear:  
|>  
|> 1. Buy a 1957 Buick RoadMaster  
|> 2. Put the rig on the ground behind the rear wheels  
|> 3. Put the transmission in Reverse  
|> 4. Gun the engine  
|> 5. Pop the clutch.  
|>  
|> I jest of course; I have fond memories of all my Heathkits,  
|> including the HW-101. If you can fix it up cheap, it's an  
|> ok rig that will get you on the air. If the repair costs much more  
|> that about \$50-\$60 or so in parts and bother, I think it's probably not  
|> worth it. Clean HW-101s in good working order go for  
|> not much more than \$100 at hamfests. Good luck.  
|>  
|> Mike, N4PDY  
|>  
|> \*\*\*\*\*  
|> \* These are my opinions only.\*  
|> \*\*\*\*\*

Mike,

it'll cost you a heck of a lot more to get the 1957 Buick RoadMaster  
to run to do steps 3 through 5..... ;-)

how old are you? anyone else on this net remember any autos made in  
1957? i was walking myself until 1964, and that's the truth.....

73 de k5fo dit dit ;-) :-) <----subliminal message there?

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Date: Mon, 15 Mar 1993 01:58:35 GMT  
From: ftpbox!mcdchg!tellab5!vpnet!pedro@uunet.uu.net  
Subject: Used radios  
To: info-hams@ucsd.edu

Hi,

I'm a amateur radio from Brazil (PU1PED)  
I want to buy 2 dual bands radios, one must be handheld.  
Does anybody know were I can find used radios? cheap? or even  
new but cheap... Is anybody selling any radio? It doesnt matter if its  
old.  
better if 144/220 but 144/440 its ok too

Thanks.

73 de pedro, PU1PED

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/-----\  
| Pedro Felzenszwalb |  
| e-mail: pedro@vpnet.chi.il.us |  
| 73 de PU1PED |
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Date: 16 Mar 1993 08:47:04 GMT  
From: usc!cs.utexas.edu!qt.cs.utexas.edu!yale.edu!ira.uka.de!Germany.EU.net!  
Informatik.Uni-Dortmund.DE!gamma!thewes@network.UCSD.EDU  
Subject: What about those FAQing number stations anyway?  
To: info-hams@ucsd.edu

>My turn to ask the eternal question: What is it with these number  
>stations anyway? The one I heard recently was at about 5.165MHz  
>USB, in the evening hours, with a female voice reciting 5-digit  
>groups in German. The voice was voice samples played back by  
>computer. "Zero" was used instead of "Null" (0) and a word like  
>"Fuelle" was used instead of "Fuenf" (5). Transmissions were  
^^^^^^

They say "Fuennef" (you see the similarity to "Fuenf"?). But I don't  
know the reason why, perhaps they think this will make it clearer to  
understand.

>bracketed by "Achtung" (Attention) and "Ende" (End). Each 5-digit  
>group was recited twice making it almost foolproof to copy even  
>if the reception was bad. Not a one-time occurrence either; I  
>heard it a year ago!

Greetings Berthold DL3YEI

-----  
Date: 16 Mar 93 02:20:24 GMT  
From: sdd.hp.com!zaphod.mps.ohio-state.edu!uwm.edu!spool.mu.edu!olivea!sgigate!  
odin!chuck.dallas.sgi.com!adams@network.UCSD.EDU  
Subject: What is RST?  
To: info-hams@ucsd.edu

In article <1993Mar15.155346.4588@hemlock.cray.com>, dadams@cray.com (David Adams) writes:

```
|> I notice most of the QSO's used in supermorse have a line like:
|>
|> Your RST is 345 345.
|>
|> Usually RST is followed by a three digit number repeated twice.
|> What does it mean?
|>
|> ---
|> --David C. Adams  Statistician  Cray Research Inc.  dadams@cray.com
|> -----
|>         Old Sourdoughs never die.  They just ferment away.
|>
|>
|>
```

Oh Oh David,

get out the flame suit on this one..... ;-) the CW ops will come out in droves. :-)

R - readability S - strength T - tone

if you haven't gotten them from someone else, let me know.

by the way, substitute snn for the three numbers during all contests, i.e. ... \_ . \_ . at highest speed your keyer will go during contest. :-)

73 de k5fo chuck dit dit

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Date: Tue, 16 Mar 1993 07:05:07 GMT  
From: pa.dec.com!rdg.dec.com!cssec4.unt.dec.com!ajk@decwrl.dec.com  
Subject: What is RST?  
To: info-hams@ucsd.edu

Here the answer:

RST is for amateur radio what SINPO, SINFO or SIO is to SWL.  
It is a code to measure reception quality.

S = signal strength  
T = tone quality

RST is used for CW, morse code transmissions; for normal speech only RS

(R and S, no T) are used.

R code goes from 5 thru 1, codes for S and T go from 9 thru 1, with highest number being best, lowest worst.

--

Dr. Anton J. Kuchelmeister  
ajk@pcs.dec.com

Digital-PCS Munich Germany

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Date: 16 Mar 93 02:43:09 GMT  
From: usc!wupost!howland.reston.ans.net!spool.mu.edu!olivea!gossip.pyramid.com!  
pyramid!infmt!seashore!randall@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <cole.109.731876607@soldev.tti.com>,  
<1993Mar11.220152.26697@cbnewsm.cb.att.com>, <PST.93Mar13161859@cider.cisco.com>L  
Subject : Re: Ham Radio Outlet/Sunnyvale does not have volunteers...they are paid

pst@cisco.com (Paul Traina) writes:

>I was down at HRO today, and I asked them point blank about this.  
>Gee, verifying facts in USENET? What a concept.  
>OK, you pinheads, here's the scoop from HRO:  
>HRO does hire part-time staff for heavy days (i.e. Saturday). They  
>are paid, albiet a very low wage (I would assume they are making  
>minimum). They say they do it because they get exposure to new radios  
>(play in the toy store), to meet the people they hear on the air, and  
>they get the standard fringe benefits that a full-time HRO employee  
>gets.

My original posting was based on what Tom told me. "My staff on weekends are volunteers." Those were his exact words. He made a special point of walking right up to me and saying it. He reacted to my previous posting, which simply theorized that HRO employees make very low wages. Well, if what you're saying is true, then what I said was true too ... so what was Tom's problem?

>Next time, at least have the decency to do some research before  
>flaming off.

If what you are saying is true, then HRO lied to me ... not only

lied, but marched right up to me and lied.

Well, this whole thing has been extremely weird, and I can assure you that this is the last time I will post anything about HRO, or walk into that store.

--

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Randall Rhea	Informix Software, Inc.
Project Manager, MIS Sales/Marketing Systems	uunet!pyramid!infmtx!randall

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End of Info-Hams Digest V93 #324  
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